

IN THE SPECIFICATION:

At page 19, lines 1 to 24, please substitute the following paragraphs:

Matrix-Assisted Laser Desorption Ionization-Mass Spectrometry (MALDI- MS) and Liquid Chromatography Tandem MS (LC/MS/MS) protein identification. A protein band stained with Coomassie Blue was excised from the gel and digested with trypsin as described at URL address:

http file type, domain name info. med. yale. edu, wmkeck directory, file geldig3.htm

~~http://info.med.yale.edu/wmkeck/geldig3.htm~~. A sample of the tryptic digest was analyzed by MALDI-MS on a Micromass ToFSpecSE. To attain the high level of accuracy needed for peptide mass searching, 100 fmol bradykinin which has a protonated monoisotopic ~~monoisotopic~~ mass of 1060.57, and ACTH clip which has a protonated monoisotopic mass of 2465.2, were used as internal calibrants. The resulting monoisotopic masses of the tryptic peptides were searched against the OWL database with the ProFound program using a mass tolerance of 0.2 daltons, and against the EMBL/non-redundant database with the PeptideSearch program using a 0.015% mass tolerance. Other important criteria used in the search were a mass range that extended from 140-560 Kda, a maximum of 1 missed cleavage and no limitation with regard to taxonomy. All the protein chemistry and mass ~~spectrometry~~ spectrometry studies were carried out in the W. M. Keck

Foundation & HHMI Biopolymer Laboratory at Yale University. Further information can be found at URL address: http file type, domain name info. med. yale. edu, wmkeck directory
~~http://info.med.yale.edu/wmkeck/~~.

A sample of the trypsin-digested protein band used for the MALDI-MS analysis was also analyzed on a LCQ ion trap mass spectrometer. A Sequest search of the MS/MS data was done,

using a tandem mass correlation algorithm with a mass ~~tolerance~~ tolerance of 2.0 daltons, to determine whether significant similarities exist between peptides from the tryptic digest and the reconstructed theoretical spectra for a protein in the NCBI nr database. Further information about this procedure can be obtained at URL address: [http file type, domain name info. med. yale. edu, wmkeck_directory, file_prochem. htm#ms/mspi](http://info.med.yale.edu/wmkeck_directory/file_prochem.htm#ms/mspi) ~~http://info.med.yale.edu/wmkeck_prochem.htm#ms/mspi~~.